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TITLE : HIGH CONCENTRATION BORIC ACID COMPOUND AND COMPOSITION FOR FIREPROOFING/FIRE RESISTING USE CONTAINING THE SAME AND BINDING MATERIAL AND FIREPROOF/FIRE RESISTANT MATERIAL USING THE SAME

ABSTRACT : PURPOSE: To convert wood and natural fiber into durables and also to use these as a pollution-free fireproof/fire resistant material.

CONSTITUTION: A high concn. boric acid compd. is obtained by mixing a boric acid compd. to either aq. soln. of a metallic ion sealing agent or aq. soln. of a wet permeable surfactant so that a concn. of the compd. may be more than a solubility equivalent to 5g/100g water at normal temp., and subjecting this mixture to a hydrothermal reaction at $\geq 60^{\circ}\text{C}$ or, moreover, adding either or both of phosphoric acid and a silanol salt having siloxane skeleton. And the fireproof/fire resistant material is produced by using a composition for fireproofing/fire resisting use containing the high concn. boric acid compd.

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